

In the Specification:

Please insert the following paragraph at page 1, line 2:

--RELATED APPLICATIONS

This application is a continuation of, and claims priority under 35 USC §120 to, US Application 09/724,524 filed 11/27/2000, which is a continuation of, and claims priority under 35 USC §120 to, US Application 09/156,923 filed 9/18/1998, issued U.S.P.N. 6,153,189, which is a continuation of, and claims priority under 35 USC §120 to, US Application 08/359,705 filed 12/20/1994, issued U.S.P.N. 5,844,092, which is a continuation-in-part of, and claims priority under 35 USC §120 to, US Application 08/286,846 filed 08/05/1994, issued U.S.P.N. 5,877,016, which is a continuation-in-part of, and claims priority under 35 USC §120 to, US Application 08/215,139 filed 03/18/1994, abandoned.--

The paragraph beginning on page 11, line 3 has been amended as follows:

--Figure 1A and 1B shows the nucleotide sequence (SEQ. ID. NO: 1) and deduced amino acid sequence (SEQ. ID. NO: 2) of human trkB receptor. A) Figure 1A: The sequence of tyrosine kinase domain-containing trkB is shown (SEQ. ID. NO: 1) with potential N-linked glycosylation sites boxed, predicted transmembrane domain underlined, and tyrosine kinase domain flanked by arrows. The site of the splice giving rise to the truncated form is indicated by a single vertical line. B) Figure 1B: The sequence (SEQ. ID. NO: 40) of the alternately spliced truncated intracellular domain is shown. The amino acid sequence and the nucleotide sequence of the truncated form of human trkB receptor are attached as SEQ. ID. NOS: 6 4 and 7 3, respectively.--

The paragraph beginning on page 11, line 15 has been amended as follows:

--Figure 2A and 2B shows the nucleotide sequence (SEQ. ID. NO: 5) and the amino acid sequence (SEQ. ID. NO: 6) of human trkC receptor. Figure 2A) The sequence of tyrosine kinase containing trkC is shown (SEQ. ID. NO: 2) with potential N-linked glycosylation sites boxed, predicted transmembrane domain underlined, and tyrosine kinase domain flanked by arrows. The site of the splice giving rise to the truncated form is indicated by a single vertical line. The sequence of the potential inserts in the extracellular and tyrosine kinase domains are flanked by brackets. Figure 2B) The sequence (SEQ. ID. NO: 41) of the alternately spliced truncated

intracellular domain is shown. The amino acid sequence and the nucleotide sequence of the truncated human trkC receptor are attached as SEQ. ID NOS.: 4 and 5 8 and 7.--

The paragraph beginning on page 12, line 4 has been amended as follows:

--**Figure 4. Summary of the splice forms seen in human and other mammalian trks.** Shown are schematic representations of the forms of the various trks arising from alternate splicing. Domains are after Schneider and Schweiger, *supra*. Data for is redrawn from the literature rat trkA (Meakin, *et al.*, *Proc. Natl. Acad. Sci. USA* **89**, 2374-2378 [1992], Barker *et al.*, *J. Biol. Chem.* **268**, 15150-15157 [1993]), rat and mouse trkB (Klein, *et al.*, *EMBO J.* **8**, 3701-3709 [1989]; Klein *et al.*, *Cell* **61**, 647-656 [1990], Middlemas *et al.*, *Mol. Cell. Biol.* **11**, 143-153 [1991]) and rat and pig trkC (Lamballe, *et al.*, *Cell* **66**, 967-979 [1991]; Valenzuela *et al.*, *Neuron* **10**, 963-974 [1993]; Tsoufas, *et al.*, *Neuron* **10**, 975-990 [1993]). Alternate forms of truncated rat trkC described by Valenzuela *et al.*, *supra* are omitted for clarity. The closed triangle in trkA extracellular region represents the optionally present peptide Ser-Pro-Ser-Arg-Trp (SEQ ID NO: 39) as described in the text. The half closed triangle in trkC extracellular region represents the optionally present 9 amino acid peptide ESTDNFILF (SEQ ID NO:36) as described in the text. The smaller open triangle in trkC tyrosine kinase domain represents the optionally present 14 amino acid peptide LFNPSPGNFCIWCE (SEQ ID NO: 37), and the larger open triangle in non-human trkC tyrosine kinase domain represents the optionally present 25 or 39 amino acid peptides.--

The paragraph beginning on page 15, line 17 has been amended as follows:

--Comparison of the amino acid sequences of full length human trkA, trkB and trkC receptors. The consensus sequences are boxed; the boundaries of the various domains are marked by vertical lines (see SEQ ID NOS: 3, 1 and 2 9, 2 and 6).--

The paragraph beginning on page 98, line 16 has been amended as follows:

--In the extracellular domain of human trkC, there was a possible deletion of nine amino acids compared to rat and pig trkC at a site near to that where the extracellular insert was described in rat and human trkA (Barker *et al.*, J. Biol. Chem. **268**, 1510-15157 [1993]; Figure 2). PCR analysis of this region in human trkC showed only two bands, corresponding in length to that expected for the insert-containing and insert-deleted forms. PCR analysis of this region in human trkB showed no detectable length polymorphisms, but amplification using trkA specific primers did show two distinct bands which were cloned and sequenced. The potential nucleotide insert was TCTCCTTCTGCCGGTGG (SEQ. ID. NO: 5 38) at position 1297 coding for the identical peptide insert (SEQ. ID. NO: 39) previously described in rat and human trkA (Barker, *et al., supra*).--

Please replace page 118 with the attached replacement page 118, captioned "**REPLACEMENT SHEET.**"

Please amend the specification by entering the attached Sequence Listing following the Abstract on page 120.